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Results and prospects for Charm Physics at LHCb

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Precision measurements in charm physics offer a window into a unique sector of potential New Physics interactions.

LHCb is well equipped to take advantage of the enormous production cross-section of charm mesons in pp collisions at $\sqrt{s} = 7$ TeV.

The measurement of the $D^0 - \bar{D}^0$ mixing parameters and the search for CP-violation in the charm sector are key physics goals of the LHCb programme. Results will be shown, based on the data collected in 2010, and the first few months of the 2011 run.

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